

IN THE CLAIMS:

Claims 51 and 52 are pending.

Claims 27-33, 38-47, and 50 (withdrawn).

Claim 51 (currently amended): A cold separation device for separating a cold elongate metallic workpiece along a substantially longitudinal axis thereof into two separate parts, said device comprising:

separate first, second and third spaced apart workpiece supports, said first and third workpiece supports extending upstream and downstream respectively of said second workpiece support;

a separation unit mounting a metal cutter cutting means, said second support having, which support comprises ancillary under-supports disposed laterally to either side of said metal cutter cutting means and engagable with an underside of said elongated elongate metallic workpiece, and means to constrain lateral movement of said workpiece passing through said separation unit, said separation unit having comprising at least one pair of horizontally spaced apart non-driven guide rollers adjacent said metal cutter cutting means, each guide roller of said pair being freely rotatable about a substantially vertical axis and spaced laterally to a respective side of said metal cutter cutting means, said constraint constraining means providing no lateral constraint of movement of said workpiece downstream of a most downstream pair of said non-driven guide rollers;

    said first workpiece support including an elongate conveyor table comprising a plurality of horizontally disposed rollers, and said third workpiece support surface including a receiving

table arranged to receive and support fully separated workpieces issuing from said separation unit, wherein the width of said receiving table is substantially greater than the width of said second workpiece support surface; and

a feeder comprising:

a pusher upstream of said ~~cutter cutting means~~ and adjacent said elongate conveyor table, said feeder movable between respective distal ends of said elongate conveyor table in a substantially horizontal plane by a linear ~~drive drive means~~; and

~~a conveyor table downstream of said cutter cutting means, said conveyor table having a plurality of horizontally disposed driven rollers engageable with an underside of said elongate metallic workpiece;~~

said first and third workpiece supports extensible extending in substantially a common horizontal plane and said second support movable in a direction substantially perpendicular to said common horizontal plane.

Claim 52 (currently amended): A process for separating a cold ~~elongated~~ elongate metallic workpiece along a substantially longitudinal axis thereof into two separate sections, said process comprising the steps of:

providing a separation ~~unit device~~ comprising:

separate first, second and third spaced apart workpiece supports, said first and third workpiece supports extending upstream and downstream respectively of said second workpiece support;

a separation unit mounting a metal cutter cutting means, said second support having, which support comprises ancillary under-supports disposed laterally to either side of said metal cutter cutting means and engagable with an underside of said elongated elongate metallic workpiece, and means to constrain lateral movement of said workpiece passing through said separation unit, said separation unit having comprising at least one pair of horizontally spaced apart non-driven guide rollers adjacent said metal cutter cutting means, each guide roller of said pair being freely rotatable about a substantially vertical axis and spaced laterally to a respective side of said metal cutter cutting means, said constraint constraining means providing no lateral constraint of movement of said workpiece downstream of a most downstream pair of said non-driven guide rollers;

    said first workpiece support including an elongate conveyor table comprising a plurality of horizontally disposed rollers, and said third workpiece support surface including a receiving table arranged to receive and support fully separated workpieces issuing from said separation unit, wherein the width of said receiving table is substantially greater than the width of said second workpiece support surface;

    a feeder comprising:

        a pusher upstream of said cutter cutting means and adjacent said elongate conveyor table, said feeder movable between respective distal ends of said elongate conveyor table in a substantially horizontal plane by a linear driver drive means;

        a conveyor table downstream of said cutter cutting means, said conveyor table having a plurality of horizontally disposed driven rollers engageable with an underside of said elongate metallic workpiece;

said first and third workpiece supports extensible extending in substantially a common horizontal plane and said second support movable in a direction substantially perpendicular to said common horizontal plane;

placing said elongated elongate metallic workpiece on said separation unit first support;  
aligning said substantially longitudinal axis of said elongated elongate workpiece with  
said cutter cutting means of said separation unit;

feeding said elongated elongate workpiece through said separation unit to cut said  
separate sections;

supporting said separated separate sections; and

constraining lateral movement of said elongated workpiece in said separation unit.